



Attorney Docket No. 108298726US
Disclosure No. 03-0128.00/US

PTO/SB/08a/b (08-03)

Approved for use through 07/31/2005. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

| | | | | | |
|--|---|----|----|--------------------------|------------------------|
| Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary) | | | | Complete If Known | |
| | | | | Application Number | 10/687,458-Conf. #8780 |
| | | | | Filing Date | October 15, 2003 |
| | | | | First Named Inventor | David J. Kubista |
| | | | | Art Unit | 1763 |
| | | | | Examiner Name | Rudy Zervigon |
| Sheet | 1 | of | 13 | Attorney Docket Number | 108298726US |

| U.S. PATENT DOCUMENTS | | | | | |
|-----------------------|--------------------------|---|--------------------------------|--|---|
| Examiner Initials* | Cite No. ¹ | Document Number Number-Kind Code ² (if known) | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
| | | US-10/767,298 | Filed 01-28-2004 | Zheng et al. | |
| | | US-11/027,825 | Filed 12-29-2004 | Derderian et al. | |
| | | US-10/933,604 | Filed 09-02-2004 | Carpenter et al. | |
| | | US-10/683,424 | Filed 10-10-2003 | Mardian | |
| | | US-10/839,316 | Filed 05-05-2004 | Saragiannis et al. | |
| | | US-10/814,573 | Filed 03-31-2004 | Gealy et al. | |
| | | US-11/043,629 | Filed 01-25-2005 | Rueger et al. | |
| | | US-11/018,142 | Filed 12-20-2004 | Rueger et al. | |
| | | US-10/840,571 | Filed 05-06-2004 | Dando et al. | |
| | | US-10/859,883 | Filed 06-02-2004 | Miller et al. | |
| | | US-10/683,606 | Filed 10-09-2003 | Derderian | |
| | | US-11/027,809 | Filed 12-29-2004 | Carpenter et al. | |
| | | US-579,269 | 03-23-1897 | Hent | |
| | | US-3,618,919 | 11-09-1971 | Beck | |
| | | US-3,620,934 | 11-16-1971 | Endle | |
| | | US-3,630,881 | 12-28-1971 | Lester et al. | |
| | | US-3,630,769 | 12-28-1971 | Hart et al. | |
| | | US-3,634,212 | 01-11-1972 | Valayil et al. | |
| | | US-4,018,949 | 04-19-1977 | Donokowski et al. | |
| | | US-4,242,182 | 12-30-1980 | Popescu | |
| | | US-4,269,625 | 05-26-1981 | Molenaar | |

| | | | | | |
|--|---|----|----|--------------------------|------------------------|
| Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary) | | | | Complete if Known | |
| | | | | Application Number | 10/687,458—Conf. #8780 |
| | | | | Filing Date | October 15, 2003 |
| | | | | First Named Inventor | David J. Kubista |
| | | | | Art Unit | 1763 |
| | | | | Examiner Name | Rudy Zervigon |
| | | | | Attorney Docket Number | 108298726US |
| Sheet | 2 | of | 13 | | |

| | | | | |
|---|--------------|------------|--------------------|--|
| ✓ | US-4,289,061 | 09-15-1981 | Emmett | |
| | US-4,397,753 | 08-09-1983 | Czaja | |
| | US-4,438,724 | 03-27-1984 | Doehler et al. | |
| | US-4,469,801 | 09-04-1984 | Hirai et al. | |
| | US-4,545,136 | 10-08-1985 | Izu et al. | |
| | US-4,590,042 | 05-20-1986 | Drage | |
| | US-4,681,777 | 07-21-1987 | Engelken et al. | |
| | US-4,826,579 | 05-02-1989 | Westfall | |
| | US-4,948,979 | 08-14-1990 | Munakata et al. | |
| | US-4,949,669 | 08-21-1990 | Ishii et al. | |
| | US-4,966,646 | 10-30-1990 | Zdeblick | |
| | US-4,977,106 | 12-11-1990 | Smith | |
| | US-5,076,205 | 12-31-1991 | Vowles et al. | |
| | US-5,091,207 | 02-25-1992 | Tanaka | |
| | US-5,131,752 | 07-21-1992 | Yu et al. | |
| | US-5,136,975 | 08-11-1992 | Bartholomew et al. | |
| | US-5,172,849 | 12-22-1992 | Barten et al. | |
| | US-5,200,023 | 04-06-1993 | Gifford et al. | |
| | US-5,223,113 | 06-29-1993 | Kaneko et al. | |
| | US-5,232,749 | 08-03-1993 | Gilton | |
| | US-5,248,527 | 09-28-1993 | Uchida et al. | |
| | US-5,364,219 | 11-15-1994 | Takahashi et al. | |
| | US-5,377,429 | 01-03-1995 | Sandhu et al. | |
| | US-5,380,396 | 01-10-1995 | Shikida et al. | |
| | US-5,409,129 | 04-25-1995 | Tsukada et al. | |
| | US-5,418,180 | 05-23-1995 | Brown | |
| | US-5,427,666 | 06-27-1995 | Mueller et al. | |
| | US-5,433,835 | 07-18-1995 | Demaray et al. | |
| | US-5,445,491 | 08-29-1995 | Nakagawa et al. | |
| | US-5,480,818 | 01-02-1996 | Matsumoto et al. | |
| | US-5,498,292 | 03-12-1996 | Ozaki | |
| ✓ | US-5,500,256 | 03-19-1996 | Watabe | |

| | | | |
|--------------------|----------------------|-----------------|---------|
| Examiner Signature | <i>Rudy Zervigon</i> | Date Considered | 11/8/05 |
|--------------------|----------------------|-----------------|---------|

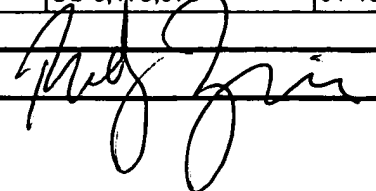
| | | | | | |
|--|---|----|----|--------------------------|------------------------|
| Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary) | | | | Complete if Known | |
| | | | | Application Number | 10/687,458—Conf. #8780 |
| | | | | Filing Date | October 15, 2003 |
| | | | | First Named Inventor | David J. Kubista |
| | | | | Art Unit | 1763 |
| | | | | Examiner Name | Rudy Zervigon |
| Sheet | 3 | of | 13 | Attorney Docket Number | 108298726US |

| | | | | |
|---|--------------|------------|------------------|--|
| ✓ | US-5,522,934 | 06-04-1996 | Suzuki et al. | |
| | US-5,536,317 | 07-16-1996 | Crain et al. | |
| | US-5,562,800 | 10-08-1996 | Kawamura | |
| | US-5,589,002 | 12-31-1996 | Su | |
| | US-5,592,581 | 01-07-1997 | Okase | |
| | US-5,595,606 | 01-21-1997 | Fujikawa et al. | |
| | US-5,599,513 | 02-04-1997 | Masaki et al. | |
| | US-5,624,498 | 04-29-1997 | Lee et al. | |
| | US-5,626,936 | 05-06-1997 | Alderman | |
| | US-5,640,751 | 06-24-1997 | Faria | |
| | US-5,643,394 | 07-01-1997 | Maydan et al. | |
| | US-5,654,589 | 08-05-1997 | Huang et al. | |
| | US-5,693,288 | 12-02-1997 | Nakamura | |
| | US-5,729,896 | 03-24-1998 | Dalal et al. | |
| | US-5,746,434 | 05-05-1998 | Boyd et al. | |
| | US-5,766,364 | 06-16-1998 | Ishida et al. | |
| | US-5,769,952 | 06-23-1998 | Komino | |
| | US-5,788,778 | 08-04-1998 | Shang et al. | |
| | US-5,792,700 | 08-11-1998 | Turner et al. | |
| | US-5,792,269 | 08-11-1998 | Deacon et al. | |
| | US-5,820,641 | 10-13-1998 | Gu et al. | |
| | US-5,827,370 | 10-27-1998 | Gu | |
| | US-5,833,888 | 11-10-1998 | Arya et al. | |
| | US-5,846,330 | 12-08-1998 | Quirk et al. | |
| | US-5,846,275 | 12-08-1998 | Lane et al. | |
| | US-5,851,849 | 12-22-1998 | Comizzoli et al. | |
| | US-5,865,417 | 02-02-1999 | Harris et al. | |
| | US-5,879,459 | 03-09-1999 | Gadgil et al. | |
| | US-5,895,530 | 04-20-1999 | Shrotriya et al. | |
| | US-5,908,947 | 06-01-1999 | Vaartstra | |
| | US-5,932,286 | 08-03-1999 | Beinglass et al. | |
| ✓ | US-5,953,634 | 09-14-1999 | Kajita et al. | |

| | | | |
|--------------------|----------------------|-----------------|--------|
| Examiner Signature | <i>Rudy Zervigon</i> | Date Considered | 11/8/5 |
|--------------------|----------------------|-----------------|--------|

| | | | | | |
|--|---|----|----|--------------------------|------------------------|
| Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary) | | | | Complete if Known | |
| | | | | Application Number | 10/687,458—Conf. #8780 |
| | | | | Filing Date | October 15, 2003 |
| | | | | First Named Inventor | David J. Kubista |
| | | | | Art Unit | 1763 |
| | | | | Examiner Name | Rudy Zervigon |
| Sheet | 4 | of | 13 | Attorney Docket Number | 108298726US |

| | | | | |
|----|---------------|------------|---------------------|--|
| 25 | US-5,956,613 | 09-21-1999 | Zhao et al. | |
| | US-5,968,587 | 10-19-1999 | Frankel | |
| | US-5,972,430 | 10-26-1999 | DiMeo, Jr. et al. | |
| | US-5,994,181 | 11-30-1999 | Hsieh et al. | |
| | US-5,997,588 | 12-07-1999 | Goodwin et al. | |
| | US-6,008,086 | 12-28-1999 | Schuegraf et al. | |
| | US-6,032,923 | 03-07-2000 | Biegelsen et al. | |
| | US-6,042,652 | 03-28-2000 | Hyun et al. | |
| | US-6,045,620 | 04-04-2000 | Tepman et al. | |
| | US-6,059,885 | 05-09-2000 | Ohashi et al. | |
| | US-6,062,256 | 05-16-2000 | Miller et al. | |
| | US-6,070,551 | 06-06-2000 | Li et al. | |
| | US-6,080,446 | 06-27-2000 | Tobe et al. | |
| | US-6,079,426 | 06-27-2000 | Subrahmanyam et al. | |
| | US-6,086,677 | 07-11-2000 | Umotoy et al. | |
| | US-6,089,543 | 07-18-2000 | Freerks | |
| | US-6,109,206 | 08-29-2000 | Maydan et al. | |
| | US-09/651,037 | 08-30-2000 | Mardian | |
| | US-6,123,107 | 09-26-2000 | Selser et al. | |
| | US-6,129,331 | 10-10-2000 | Henning et al. | |
| | US-6,139,700 | 10-31-2000 | Kang et al. | |
| | US-6,143,659 | 11-07-2000 | Leem | |
| | US-6,143,077 | 11-07-2000 | Ikeda et al. | |
| | US-6,143,078 | 11-07-2000 | Ishikawa et al. | |
| | US-6,144,060 | 11-07-2000 | Park et al. | |
| | US-6,149,123 | 11-21-2000 | Harris et al. | |
| | US-6,160,243 | 12-12-2000 | Cozad | |
| | US-6,161,500 | 12-19-2000 | Kopacz et al. | |
| | US-6,174,366 | 01-16-2001 | Ihantola | |
| | US-6,174,377 | 01-16-2001 | Doering et al. | |
| | US-6,174,809 | 01-16-2001 | Kang et al. | |
| V | US-6,173,673 | 01-16-2001 | Golovato et al. | |

| | | | |
|-----------------------|---|--------------------|---------|
| Examiner Signature |  | Date Considered | 11/8/05 |
|-----------------------|---|--------------------|---------|

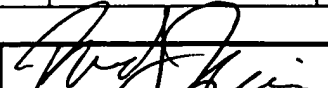
| | | | | | |
|---|---|----|----|--------------------------|------------------------|
| Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i> | | | | Complete if Known | |
| | | | | Application Number | 10/687,458—Conf. #8780 |
| | | | | Filing Date | October 15, 2003 |
| | | | | First Named Inventor | David J. Kubista |
| | | | | Art Unit | 1763 |
| | | | | Examiner Name | Rudy Zervigon |
| Sheet | 5 | of | 13 | Attorney Docket Number | 108298726US |

| | | | | |
|---|--------------------|------------|--------------------|--|
| ✓ | US-6,178,660 | 01-30-2001 | Emmi et al. | |
| | US-6,182,603 | 02-02-2001 | Shang et al. | |
| | US-6,192,827 | 02-27-2001 | Welch et al. | |
| | US-6,194,628 | 02-27-2001 | Pang et al. | |
| | US-6,193,802 | 02-27-2001 | Pang et al. | |
| | US-6,197,119 | 03-06-2001 | Dozoretz et al. | |
| | US-6,200,415 | 03-13-2001 | Maraschin | |
| | US-6,203,613 | 03-20-2001 | Gates et al. | |
| | US-6,206,972 | 03-27-2001 | Dunham | |
| | US-6,211,078 | 04-03-2001 | Matthews | |
| | US-6,211,033 | 04-03-2001 | Sandhu et al. | |
| | US-6,210,754 | 04-03-2001 | Lu et al. | |
| | US-6,214,714 | 04-10-2001 | Wang et al. | |
| | US-6,237,394 | 05-29-2001 | Harris et al. | |
| | US-6,237,529 | 05-29-2001 | Spahn | |
| | US-6,245,192 | 06-12-2001 | Dhindsa et al. | |
| | US-6,255,222 | 07-03-2001 | Xia et al. | |
| | US-6,263,829 | 07-24-2001 | Schneider et al. | |
| | US-2001/0010309-A1 | 08-02-2001 | Van Bilsen | |
| | US-6,270,572 | 08-07-2001 | Kim et al. | |
| | US-2001/0011526-A1 | 08-09-2001 | Doering et al. | |
| | US-6,280,584 | 08-28-2001 | Kumar et al. | |
| | US-6,287,980 | 09-11-2001 | Hanazaki et al. | |
| | US-6,287,965 | 09-11-2001 | Kang et al. | |
| | US-6,291,337 | 09-18-2001 | Sidhwa | |
| | US-6,290,491 | 09-18-2001 | Shahvandi et al. | |
| | US-2001/0024387-A1 | 09-27-2001 | Raaijmakers et al. | |
| | US-6,297,539 | 10-02-2001 | Ma et al. | |
| | US-6,302,964 | 10-16-2001 | Umotoy et al. | |
| | US-6,302,965 | 10-16-2001 | Umotoy et al. | |
| | US-6,303,953 | 10-16-2001 | Doan et al. | |
| ✓ | US-2001/0029892-A1 | 10-18-2001 | Cook et al. | |

| | | | |
|-----------------------|---|--------------------|---------|
| Examiner Signature |  | Date Considered | 11/8/05 |
|-----------------------|---|--------------------|---------|

| | | | | | |
|--|---|----|----|--------------------------|------------------------|
| Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary) | | | | Complete if Known | |
| | | | | Application Number | 10/687,458—Conf. #8780 |
| | | | | Filing Date | October 15, 2003 |
| | | | | First Named Inventor | David J. Kubista |
| | | | | Art Unit | 1763 |
| | | | | Examiner Name | Rudy Zervigon |
| | | | | Attorney Docket Number | 108298726US |
| Sheet | 6 | of | 13 | | |

| | | | | |
|------|--------------------|------------|--------------------|--|
| 10/8 | US-6,305,314 | 10-23-2001 | Sneh et al. | |
| | US-6,309,161 | 10-30-2001 | Hofmeister | |
| | US-6,315,859 | 11-13-2001 | Donohoe | |
| | US-2001/0045187-A1 | 11-29-2001 | Uhlenbrock | |
| | US-6,329,297 | 12-11-2001 | Balish et al. | |
| | US-2001/0054484-A1 | 12-27-2001 | Komino | |
| | US-2002/0007790-A1 | 01-24-2002 | Park | |
| | US-6,342,277 | 01-29-2002 | Sherman | |
| | US-6,346,477 | 02-12-2002 | Kaloyeros et al. | |
| | US-6,347,602 | 02-19-2002 | Goto et al. | |
| | US-6,347,918 | 02-19-2002 | Blahnik | |
| | US-2002/0020353-A1 | 02-21-2002 | Redemann et al. | |
| | US-6,355,561 | 03-12-2002 | Sandhu et al. | |
| | US-6,358,323 | 03-19-2002 | Schmitt et al. | |
| | US-2002/0043216-A1 | 04-18-2002 | Hwang et al. | |
| | US-6,374,831 | 04-23-2002 | Chandran et al. | |
| | US-2002/0052097-A1 | 05-02-2002 | Park | |
| | US-6,387,185 | 05-14-2002 | Doering et al. | |
| | US-6,387,207 | 05-14-2002 | Janakiraman et al. | |
| | US-2002/0076508-A1 | 06-20-2002 | Chiang et al. | |
| | US-2002/0076490-A1 | 06-20-2002 | Chiang et al. | |
| | US-2002/0073924-A1 | 06-20-2002 | Chiang et al. | |
| | US-2002/0076507-A1 | 06-20-2002 | Chiang et al. | |
| | US-6,420,230 | 07-16-2002 | Derderian et al. | |
| | US-6,419,462 | 07-16-2002 | Horie et al. | |
| | US-6,420,742 | 07-16-2002 | Ahn et al. | |
| | US-2002/0094689-A1 | 07-18-2002 | Park | |
| | US-2002/0100418-A1 | 08-01-2002 | Sandhu et al. | |
| | US-6,428,859 | 08-06-2002 | Chiang et al. | |
| | US-2002/0104481-A1 | 08-08-2002 | Chiang et al. | |
| | US-6,432,831 | 08-13-2002 | Dhindsa et al.. | |
| ✓ | US-6,432,259 | 08-13-2002 | Noorbaksh et al. | |

| | | | |
|--------------------|---|-----------------|---------|
| Examiner Signature |  | Date Considered | 11/8/05 |
|--------------------|---|-----------------|---------|

| | | | | | |
|--|---|----|----|--------------------------|------------------------|
| Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary) | | | | Complete If Known | |
| | | | | Application Number | 10/687,458—Conf. #8780 |
| | | | | Filing Date | October 15, 2003 |
| | | | | First Named Inventor | David J. Kubista |
| | | | | Art Unit | 1763 |
| | | | | Examiner Name | Rudy Zervigon |
| Sheet | 7 | of | 13 | Attorney Docket Number | 108298726US |

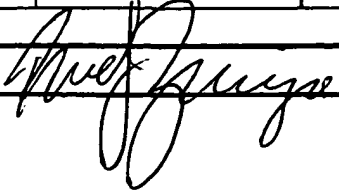
| | | | | |
|-------------------------------------|--------------------|------------|------------------|--|
| <input checked="" type="checkbox"/> | US-6,432,256 | 08-13-2002 | Raoux | |
| <input type="checkbox"/> | US-2002/0110991-A1 | 08-15-2002 | Li | |
| <input type="checkbox"/> | US-2002/0108714-A1 | 08-15-2002 | Doering et al. | |
| <input type="checkbox"/> | US-6,435,865 | 08-20-2002 | Tseng et al. | |
| <input type="checkbox"/> | US-6,444,039 | 09-03-2002 | Nguyen | |
| <input type="checkbox"/> | US-2002/0127745-A1 | 09-12-2002 | Lu et al. | |
| <input type="checkbox"/> | US-6,450,117 | 09-17-2002 | Murugesh et al. | |
| <input type="checkbox"/> | US-6,451,119 | 09-17-2002 | Sneh et al. | |
| <input type="checkbox"/> | US-2002/0129768-A1 | 09-19-2002 | Carpenter et al. | |
| <input type="checkbox"/> | US-6,458,416 | 10-01-2002 | Derderian et al. | |
| <input type="checkbox"/> | US-6,461,931 | 10-08-2002 | Eldridge | |
| <input type="checkbox"/> | US-6,461,436 | 10-08-2002 | Campbell et al. | |
| <input type="checkbox"/> | US-2002/0144655-A1 | 10-10-2002 | Chiang et al. | |
| <input type="checkbox"/> | US-2002/0146512-A1 | 10-10-2002 | Rossman | |
| <input type="checkbox"/> | US-2002/0164420-A1 | 11-07-2002 | Derderian et al. | |
| <input type="checkbox"/> | US-2002/0162506-A1 | 11-07-2002 | Sneh et al. | |
| <input type="checkbox"/> | US-2002/0185067-A1 | 12-12-2002 | Upham | |
| <input type="checkbox"/> | US-2002/0195201-A1 | 12-26-2002 | Beer | |
| <input type="checkbox"/> | US-2002/0197402-A1 | 12-26-2002 | Chiang et al. | |
| <input type="checkbox"/> | US-2002/0195056-A1 | 12-26-2002 | Sandhu et al. | |
| <input type="checkbox"/> | US-2003/0003730-A1 | 01-02-2003 | Li | |
| <input type="checkbox"/> | US-2003/0000473-A1 | 01-02-2003 | Chae et al. | |
| <input type="checkbox"/> | US-2003/0003697-A1 | 01-02-2003 | Agarwal et al. | |
| <input type="checkbox"/> | US-6,503,330 | 01-07-2003 | Sneh et al. | |
| <input type="checkbox"/> | US-6,506,254 | 01-14-2003 | Bosch et al. | |
| <input type="checkbox"/> | US-2003/0013320-A1 | 01-16-2003 | Kim et al. | |
| <input type="checkbox"/> | US-6,509,280 | 01-21-2003 | Choi | |
| <input type="checkbox"/> | US-2003/0023338-A1 | 01-30-2003 | Chin et al. | |
| <input type="checkbox"/> | US-2003/0024477-A1 | 02-06-2003 | Okuda et al. | |
| <input type="checkbox"/> | US-2003/0027428-A1 | 02-06-2003 | Ng et al. | |
| <input type="checkbox"/> | US-2003/0027431-A1 | 02-06-2003 | Sneh et al. | |
| <input checked="" type="checkbox"/> | US-10/365,085 | 02-11-2003 | Carpenter et al. | |

| | | | |
|--------------------|---|-----------------|-------|
| Examiner Signature |  | Date Considered | 1/8/5 |
|--------------------|---|-----------------|-------|

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

| | | | | | |
|--|---|----|----|--------------------------|------------------------|
| Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary) | | | | Complete If Known | |
| | | | | Application Number | 10/687,458—Conf. #8780 |
| | | | | Filing Date | October 15, 2003 |
| | | | | First Named Inventor | David J. Kubista |
| | | | | Art Unit | 1763 |
| | | | | Examiner Name | Rudy Zervigon |
| Sheet | 8 | of | 13 | Attorney Docket Number | 108298726US |

| | | | | |
|-------------------------------------|--------------------|------------|-------------------|--|
| <input checked="" type="checkbox"/> | US-2003/0037729-A1 | 02-27-2003 | DeDontney et al. | |
| <input checked="" type="checkbox"/> | US-6,534,395 | 03-18-2003 | Werkhoven et al. | |
| <input checked="" type="checkbox"/> | US-6,534,007 | 03-18-2003 | Blonigan et al. | |
| <input checked="" type="checkbox"/> | US-2003/0060030-A1 | 03-27-2003 | Lee et al. | |
| <input checked="" type="checkbox"/> | US-6,540,838 | 04-01-2003 | Sneh et al. | |
| <input checked="" type="checkbox"/> | US-6,541,353 | 04-01-2003 | Sandhu et al. | |
| <input checked="" type="checkbox"/> | US-2003/0066483-A1 | 04-10-2003 | Lee et al. | |
| <input checked="" type="checkbox"/> | US-2003/0070618-A1 | 04-17-2003 | Campbell et al. | |
| <input checked="" type="checkbox"/> | US-2003/0070617-A1 | 04-17-2003 | Kim et al. | |
| <input checked="" type="checkbox"/> | US-2003/0070609-A1 | 04-17-2003 | Campbell et al. | |
| <input checked="" type="checkbox"/> | US-6,551,929 | 04-22-2003 | Kori et al. | |
| <input checked="" type="checkbox"/> | US-2003/0075273-A1 | 04-24-2003 | Kilpela et al. | |
| <input checked="" type="checkbox"/> | US-2003/0079686-A1 | 05-01-2003 | Chen et al. | |
| <input checked="" type="checkbox"/> | US-6,562,140 | 05-13-2003 | Bondestam et al. | |
| <input checked="" type="checkbox"/> | US-6,562,141 | 05-13-2003 | Clarke | |
| <input checked="" type="checkbox"/> | US-2003/0098372-A1 | 05-29-2003 | Kim | |
| <input checked="" type="checkbox"/> | US-2003/0098419-A1 | 05-29-2003 | Ji et al. | |
| <input checked="" type="checkbox"/> | US-6,573,184 | 06-03-2003 | Park | |
| <input checked="" type="checkbox"/> | US-2003/0106490-A1 | 06-12-2003 | Jallepally et al. | |
| <input checked="" type="checkbox"/> | US-6,579,372 | 06-17-2003 | Park | |
| <input checked="" type="checkbox"/> | US-6,579,374 | 06-17-2003 | Bondestam et al. | |
| <input checked="" type="checkbox"/> | US-2003/0121608-A1 | 07-03-2003 | Chen et al. | |
| <input checked="" type="checkbox"/> | US-6,596,085 | 07-22-2003 | Schmitt et al. | |
| <input checked="" type="checkbox"/> | US-6,602,346 | 08-05-2003 | Gochberg | |
| <input checked="" type="checkbox"/> | US-2003/0159780-A1 | 08-28-2003 | Carpenter et al. | |
| <input checked="" type="checkbox"/> | US-6,630,201 | 10-07-2003 | Chiang et al. | |
| <input checked="" type="checkbox"/> | US-2003/0194862-A1 | 10-16-2003 | Mardian et al. | |
| <input checked="" type="checkbox"/> | US-2003/0192645-A1 | 10-16-2003 | Liu | |
| <input checked="" type="checkbox"/> | US-6,635,965 | 10-21-2003 | Lee et al. | |
| <input checked="" type="checkbox"/> | US-6,638,879 | 10-28-2003 | Hsieh et al. | |
| <input checked="" type="checkbox"/> | US-6,638,672 | 10-28-2003 | Deguchi | |
| <input checked="" type="checkbox"/> | US-2003/0203109-A1 | 10-30-2003 | Dando et al. | |


| | | | |
|--------------------|---|-----------------|--------|
| Examiner Signature |  | Date Considered | 11/8/5 |
|--------------------|---|-----------------|--------|

| | | | | | |
|--|---|----|----|--------------------------|------------------------|
| Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary) | | | | Complete If Known | |
| | | | | Application Number | 10/687,458—Conf. #8780 |
| | | | | Filing Date | October 15, 2003 |
| | | | | First Named Inventor | David J. Kubista |
| | | | | Art Unit | 1763 |
| | | | | Examiner Name | Rudy Zervigon |
| Sheet | 9 | of | 13 | Attorney Docket Number | 108298726US |

| | | | | |
|---|--------------------|------------|--------------------|--|
| ✓ | US-2003/0200926-A1 | 10-30-2003 | Dando et al. | |
| | US-6,641,673 | 11-04-2003 | Yang | |
| | 10/733,523 | 12-10-2003 | Beaman et al. | |
| | US-6,673,196 | 01-06-2004 | Oyabu | |
| | US-2004/0003777-A1 | 01-08-2004 | Carpenter et al. | |
| | US-2004/0007188-A1 | 01-15-2004 | Burkhart et al. | |
| | US-2004/0035358-A1 | 02-26-2004 | Basceri et al. | |
| | US-2004/0040502-A1 | 03-04-2004 | Basceri et al. | |
| | US-2004/0040503-A1 | 03-04-2004 | Basceri et al. | |
| | US-6,704,913 | 03-09-2004 | Rossmann | |
| | US-6,706,334 | 03-16-2004 | Kobayashi et al. | |
| | US-6,705,345 | 03-16-2004 | Bifano | |
| | US-2004/0083959-A1 | 05-06-2004 | Carpenter et al. | |
| | US-2004/0083961-A1 | 05-06-2004 | Basceri | |
| | US-2004/0083960-A1 | 05-06-2004 | Dando | |
| | US-2004/0099377-A1 | 05-27-2004 | Newton et al. | |
| | US-2004/0124131-A1 | 07-01-2004 | Aitchison et al. | |
| | US-2004/0154538-A1 | 08-12-2004 | Carpenter et al. | |
| | US-6,818,249-B2 | 11-16-2004 | Derderian | |
| | US-2004/0226507-A1 | 11-18-2004 | Carpenter et al. | |
| | US-6,821,347-B2 | 11-23-2004 | Carpenter et al. | |
| | US-6,838,114-B2 | 01-04-2005 | Carpenter et al. | |
| | US-2005/0016984-A1 | 01-27-2005 | Dando | |
| | US-2005/0022739-A1 | 02-03-2005 | Carpenter et al. | |
| | US-2005/0028734-A1 | 02-10-2005 | Carpenter et al. | |
| | US-2005/0039680-A1 | 02-24-2005 | Beaman et al. | |
| | US-2005/0039686-A1 | 02-24-2005 | Zheng et al. | |
| | US-6,861,094-B2 | 03-01-2005 | Derderian et al. | |
| | US-2005/0045100-A1 | 03-03-2005 | Derderian | |
| | US-2005/0045102-A1 | 03-03-2005 | Zheng et al. | |
| | US-2005/0059261-A1 | 03-17-2005 | Basceri et al. | |
| ✓ | US-2005/0061243-A1 | 03-24-2005 | Sarigiannis et al. | |

| | | | |
|--------------------|-------------------------|-----------------|---------|
| Examiner Signature | <i>Andreas Zervigon</i> | Date Considered | 11/8/05 |
|--------------------|-------------------------|-----------------|---------|

| | | | | | |
|--|----|----|----|--------------------------|------------------------|
| Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary) | | | | Complete if Known | |
| | | | | Application Number | 10/687,458—Conf. #8780 |
| | | | | Filing Date | October 15, 2003 |
| | | | | First Named Inventor | David J. Kubista |
| | | | | Art Unit | 1763 |
| | | | | Examiner Name | Rudy Zervigon |
| Sheet | 10 | of | 13 | Attorney Docket Number | 108298726US |

| FOREIGN PATENT DOCUMENTS | | | | | | |
|--------------------------|---|---|-----------------------------------|--|---|----------------|
| Examiner Initials* | Cite No.† | Foreign Patent Document Country Code ³ -Number ⁴ -Kind Code ⁵ (if known) | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | T ⁶ |
| RJB | | JP-4-213818-A | 08-04-1992 | Sony Corp | | |
| | | JP-2001-82682-A | 03-30-2001 | Matsushita Refrig Co Ltd. | | ✓ |
| | | JP-1-273991-A | 11-01-1989 | Ishikawajima Harima Heavy Ind. Co. Ltd. | | |
| | | JP-63-256460-A | 10-24-1988 | Oki Electric Ind. Co. Ltd. | | |
| | | WO-00/79019-A1 | 12-28-2000 | Gadgil | | |
| | | WO-03/016587-A1 | 02-27-2003 | ASM Microchemistry OY, et al. | | |
| | | WO-00/65649-A1 | 11-02-2000 | Tokyo Electron Limited | | |
| | | WO-03/008662-A2 | 01-30-2003 | Applied Materials, Inc. | | |
| | | WO-03/028069-A2 | 04-03-2003 | Applied Materials, Inc. | | |
| | | WO-02/095807-A2 | 11-28-2002 | Integrated Materials, Inc. | | |
| | | WO-02/073660-A2 | 09-19-2002 | ASML US, Inc. | | |
| | | WO-00/63952-A1 | 10-26-2000 | Integrated Materials, Inc. | | |
| | | WO-03/033762-A1 | 04-24-2003 | Micron Technology, Inc. | | |
| | | WO-02/45871-A1 | 06-13-2002 | Angstrom Systems Inc. | | |
| | | DE-198 51 824-A1 | 05-11-2000 | Siemens AG | | |
| | | WO-03/052807-A1 | 06-26-2003 | Tokyo Electron Limited | | |
| | | JP-9-82650-A | 03-28-1997 | Kokusai Electric Co. Ltd. | | |
| | | JP-10-223719-A | 08-21-1998 | Dainippon Screen Mfg. Co. Ltd. | | |
| | | JP-4-100533-A | 04-02-1992 | Mitsubishi Electric Corp. | | |
| | | SU-598630 | 03-25-1978 | Veremeichuk | | |
| | | JP-2002-164336-A | 06-07-2002 | Sony Corporation | | ✓ |
| | | WO-02/073329-A2 | 09-19-2002 | Applied Materials, Inc. | | |
| | | WO-03/035927-A2 | 05-01-2003 | Applied Materials, Inc. | | |
| | | WO-01/46490-A1 | 06-28-2001 | Lam Research Corporation | | |
| | | WO-98/37258-A1 | 08-27-1998 | Moore Epitaxial Inc. | | |
| | | WO-02/081771-A2 | 10-17-2002 | Angstrom Systems, Inc. | | |
| | | WO-99/06610-A1 | 02-11-1999 | Applied Komatsu Technology, Inc. | | |
| Examiner Signature |  | | | Date Considered | 11/3/05 | |



| | | | | | |
|--|----|----|----|--------------------------|------------------------|
| Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary) | | | | Complete if Known | |
| | | | | Application Number | 10/687,458—Conf. #8780 |
| | | | | Filing Date | October 15, 2003 |
| | | | | First Named Inventor | David J. Kubista |
| | | | | Art Unit | 1763 |
| | | | | Examiner Name | Rudy Zervigon |
| | | | | Attorney Docket Number | 108298726US |
| Sheet | 11 | of | 13 | | |

| | | | | | |
|---|------------------|------------|--------------------------------|--|---|
| ✓ | WO-02/48427-A1 | 06-20-2002 | Tokyo Electron Limited | | |
| | EP-1 167 569-A1 | 01-02-2002 | IPS Limited | | |
| | WO-00/40772-A1 | 07-13-2000 | Genus, Inc. | | |
| | JP-11-172438-A | 06-29-1999 | Samsung Electron Co. Ltd. | | ✓ |
| | JP-8-34678-A | 02-06-1996 | Matsushita Electric Works Ltd. | | ✓ |
| | JP-6-151558-A | 05-31-1994 | Tokyo Electron Ltd. | | ✓ |
| | JP-6-342785-A | 12-13-1994 | Fujitsu Ltd. | | ✓ |
| | JP-2001-261375-A | 09-26-2001 | Toshiba Ceramics Co. Ltd. | | ✓ |
| ✓ | JP-2001-254181-A | 09-18-2002 | Tokyo Electron Ltd. | | ✓ |

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. * CITE NO.: Those application(s) which are marked with an asterisk (*) next to the Cite No. are not supplied (under 37 CFR 1.98(a)(2)(iii)) because that application was filed after June 30, 2003 or is available in the IFW. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.



| NON PATENT LITERATURE DOCUMENTS | | | | |
|---------------------------------|-----------------------|---|--|----------------|
| Examiner Initials | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | | T ² |
| ✓ | | Integrated Process Systems Ltd., "ALD & CVD", 2 pages, retrieved from the Internet on December 11, 2001, < http://www.ips-tech.com/eng/pro-p2-2.htm >. | | |
| | | Deublin Company, "Rotating Unions", 1 page, retrieved from the Internet on February 4, 2002, < http://www.com/products/rotatingunions.htm >. | | |
| | | CAMERON, I., "Atomic Layer Deposition Chamber Works at Low Temperatures", 2 pages, Electronic Times, July 19, 2001, < http://www.electrontimes.com/story/OEG20010719S0042 >. | | |
| | | Cutting Edge Optronics, 600W QCW Laser Diode Array, Part Number: ARR48P600, 2 pages, October 2001, < www.ceolaser.com >. | | |
| | | HENNING, A.K., et al., "Microfluidic MEMS for Semiconductor Processing," IEEE Trans. Components, Packaging, and Manufacturing Technology B21, pp. 329-337, 1998. | | |
| | | FITCH, J.S., et al., "Pressure-Based Mass-Flow Control Using Thermopneumatically-Actuated Microvalves," Proceedings, Sensors and Actuators Workshop, pp. 162-165 (Transducers Research Foundation, Cleveland, OH, 1998). | | |
| ✓ | | HENNING, A.K., "Liquid and gas-liquid phase behavior in thermopneumatically actuated microvalves," Proceedings, Micro Fluidic Devices and Systems (SPIE, Bellingham, WA, 1998; A.B. Frazier and C.H. Ahn, eds.), Vol. 3515, pp. 53-63. | | |
| Examiner Signature | Date Considered | | | |

| | | | | | |
|---|----|----|----|--------------------------|------------------------|
| Substitute for form 1449A/B/PTO | | | | Complete If Known | |
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary) | | | | Application Number | 10/687,458—Conf. #8780 |
| | | | | Filing Date | October 15, 2003 |
| | | | | First Named Inventor | David J. Kubista |
| | | | | Art Unit | 1763 |
| | | | | Examiner Name | Rudy Zervigon |
| Sheet | 12 | of | 13 | Attorney Docket Number | 108298726US |

| | | |
|---|--|--|
|  | HENNING, A.K., et al., "Performance of MEMS-Based Gas Distribution and Control Systems for Semiconductor Processing", 8 pages, Proceedings, SEMICON West Workshop on Gas Distribution (SEMI, Mountain View, CA, 1998). | |
| | MAILLEFER, D., et al., "A High-Performance Silicon Micropump for Disposable Drug Delivery Systems," pp. 413-417, IEEE, 2001. | |
| | HENNING, A.K., et al., "A thermopneumatically actuated microvalve for liquid expansion and proportional control", Proceedings, TRANSDUCERS '97: 1997 International Solid State Sensors and Actuators Conference, pp. 825-828. | |
| | University of California, Berkeley, University Extension, "Atomic Layer Deposition," 5 pages, September 24-25, 2001, < http://www.unex.berkeley.edu/eng/br225/1-1.html >. | |
| | ENGELKE, F., et al., "Determination of Phenylthiohydantoin-Amino Acids by Two-Step Laser Desorption/Multiphoton Ionization," Analytical Chemistry, Vol. 59, No. 6, pp. 909-912, March 15, 1987, The American Chemical Society. | |
| | COWIN, J.P., et al., "Measurement of Fast Desorption Kinetics of D2 From Tungsten By Laser Induced Thermal Desorption," Surface Science, Vol. 78, pp. 545-564, 1978, North-Holland Publishing Company. | |
| | READY, J.F., "Effects Due to Absorption of Laser Radiation," Journal of Applied Physics, Vol. 36, No. 2, pp. 462-468, February 1965, Journal of Applied Physics, American Institute of Physics. | |
| | ZARE, R.N., et al. "Mass Spectrometry of Molecular Adsorbates Using Laser Desorption/Laser Multiphoton Ionization," Bulletin of the Chemical Society of Japan, Vol. 61, No. 1, pp. 87-92, January 1988. | |
| | Tokyo Electron Limited, Plasma Process System, Trias SPA, 1 page, retrieved from the Internet on October 16, 2004, < http://www.tel.com/eng/products/spe/sdtriasspa.htm >. | |
| | OLSSON, A., "Valve-less Diffuser Micropumps", ISSN 0281-2878, 66 pages, 1998. | |
| | BARDELL, R.L., et al., "Designing High-Performance Micro-Pumps Based on No-Moving-Parts Valves", DSC-Vol. 62/HTD-Vol. 354, Microelectromechanical Systems (MEMS) ASME 1997, pp. 47-53. | |
| | HENNING, A.K., et al., "Performance of MEMS-Based Gas Distribution and Control Systems for Semiconductor Processing," Proceedings, Micromachined Devices and Components (SPIE, Bellingham, WA, 1998; P.J. French and K. Chau, eds.), Vol. 3514, pp. 159-170. | |
| | HENNING, A.K. et al., "Contamination Reduction Using MEMS-BASED, High-Precision Mass Flow Controllers," Proceedings, SEMICON West Symposium on Contamination Free Manufacturing for Semiconductor Processing (SEMI, Mountain View, CA, 1998), pp. 1-11. | |
|  | HENNING, A.K., "Microfluidic MEMS," Proceedings, IEEE Aerospace Conference, Paper 4.906 (IEEE Press, Piscataway, NJ, 1998), 16 pages. | |


| | | | |
|--------------------|---|-----------------|---|
| Examiner Signature |  | Date Considered |  |
|--------------------|---|-----------------|---|

| | | | | | |
|--|----|----|----|--------------------------|------------------------|
| Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary) | | | | Complete if Known | |
| | | | | Application Number | 10/687,458—Conf. #8780 |
| | | | | Filing Date | October 15, 2003 |
| | | | | First Named Inventor | David J. Kubista |
| | | | | Art Unit | 1763 |
| | | | | Examiner Name | Rudy Zervigon |
| Sheet | 13 | of | 13 | Attorney Docket Number | 108298726US |

| | | |
|---|---|--|
|  | PETERS, L., "Thermal Processing's Tool of Choice: Single-Wafer RTP or Fast Ramp Batch?" Semiconductor International, April 1, 1998, 8 pages, < http://www.e-incite.net/semiconductor/index.asp?layout=article&articleid=CA163937 >. | |
| | The University of Adelaide, Australia, Department of Chemistry, "Spectroscopy", 2 pages, retrieved from the Internet on February 9, 2002, < http://www.chemistry.adelaide.edu.au/external/Soc-Rel/Content/spectros.htm >. | |
| | Deublin Company, "Sealing," 2 pages, retrieved from the Internet on February 4, 2002, < http://www.deublin.com/products/sealing.htm >. | |
| | Deublin Company, "Precision Rotating Connections for Water, Steam, Air, Hydraulic, Vacuum, Coolant and Hot Oil Service," 1 page, retrieved from the Internet on February 4, 2002, < http://www.deublin.com >. | |
| | Integrated Process Systems Ltd., "Nano-ALD", 2 pages, retrieved from the Internet on December 11, 2001, < http://www.ips-tech.com/eng/pro-p2.htm >. | |
| | Integrated Process Systems Ltd., "Welcome to IPS Ltd.", 1 page, retrieved from the Internet on December 11, 2001, < http://www.ips-tech.com/eng/main.htm >. | |
|  | TAKAHASHI, K et al., "Process Integration of 3D Chip Stack with Vertical Interconnection," pp. 601-609, 2004 Electronic Components and Technology Conference, IEEE, June 2004. | |

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.

| | | | |
|-----------------------|---|--------------------|---|
| Examiner Signature |  | Date Considered |  |
|-----------------------|---|--------------------|---|